

Amendment to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1 1. (Original): A computer system comprising a plurality of computers, a
2 storage control apparatus connected with the plurality of computers on a channel path and for
3 performing input and output through the channel path, and a storage device under the control of
4 the storage control apparatus for storing input/output data of the computers;

5 wherein said storage control apparatus classifies the plurality of channel ports of
6 the storage control apparatus to which the channel path is connected into priority channel ports
7 and non-priority channel ports, so that channel ports defined as priority channel ports carry out
8 I/O processing without suppressing the processing of I/O from the computers; and

9 channel ports defined as non-priority channel ports are given a target value in I/O
10 process units and carry out processing while performing feedback control so that I/O processing
11 from the computers approaches the I/O process units; and

12 wherein the storage control apparatus controls the level of the influence of the
13 non-priority channel port I/O processing on priority channel port I/O processing.

1 2. (Original): The computer system according to claim 1, wherein the
2 storage control apparatus defines a target value of I/O processing units for the priority channel
3 ports, and carries out I/O processing at the non-priority channel ports while performing feedback
4 control so that the I/O processing of the priority channel ports approaches the target value in I/O
5 process units; and the storage control apparatus controls the level of the influence of the non-
6 priority channel port I/O processing.

1 3. (Original): The computer system according to claim 1, wherein the
2 storage control apparatus determines, when the I/O frequency of the channel port set as a priority
3 channel port is less than the threshold value, a threshold value for not suppressing I/O processing
4 of non-priority channel ports and does not suppress I/O processing of the non-priority channel
5 port, whereby the I/O processing capacity of the storage control apparatus is sustained.

1 4. (Original): The computer system according to claim 2, wherein the
2 storage control apparatus determines, when the I/O frequency of the channel port set as a priority
3 channel port is less than the threshold value, a threshold value for not suppressing I/O processing
4 of a non-priority channel port and does not suppress I/O processing of the non-priority channel
5 port, whereby the I/O processing capacity of the storage control apparatus is sustained.

1 5. (Original): The computer system according to claim 1, wherein the
2 storage control apparatus classifies hosts into priority hosts and non-priority hosts in units of
3 computers sending I/O processing requests to the storage control apparatus, or in computer path
4 units such as a World Wide Name, and executes I/O processing of non-priority hosts while
5 performing feedback control so that the I/O processing of the non-priority hosts approaches the
6 I/O process units within a single channel port and among channel ports; and the storage control
7 apparatus controls the level of influence of non-priority host I/O processing on priority host I/O
8 processing.

1 6. (Original): The computer system according to claim 1, wherein the
2 storage control apparatus classifies devices into priority devices and non-priority devices in units
3 of storage devices performing I/O processing within the storage control apparatus, and executes
4 I/O processing of non-priority devices while performing feedback control so that the I/O
5 processing of the non-priority devices approaches the target I/O processing unit; and controls the
6 level of influence of non-priority device I/O processing on priority device I/O processing.

1 7. (Original): The computer system according to claim 6, wherein the
2 storage control apparatus classifies the storage area in the storage device into priority and non-
3 priority areas, and executes the I/O processing of non-priority areas while performing feedback
4 control so that the I/O processing of non-priority area approaches the target I/O processing unit;
5 and controls the level of influence of non-priority area I/O processing on priority area I/O
6 processing.

1 8. (Previously presented): A storage system comprising:
2 a storage control apparatus including a plurality of ports connected with a
3 plurality of computers and a controller for controlling the I/O from the computers; and
4 a storage apparatus including a plurality of storage devices for storing I/O from
5 the computers received by the storage control apparatus;
6 wherein the controller is provided with a priority information table holding one of
7 a priority or a non-priority value for each of the ports, the priority information table further
8 including a predefined time; and
9 wherein I/O through a port that is associated with a priority value is processed in
10 priority fashion such that the start of I/O processing through ports that are associated with non-
11 priority values are delayed by said predefined time.

1 9. (Previously presented): A storage system comprising:
2 a storage control apparatus including a plurality of ports connected with a
3 plurality of computers and a controller for controlling the I/O from said computers; and
4 a storage apparatus constituted by a plurality of storage devices for storing I/O
5 from the computers received by said storage control apparatus;
6 wherein the controller is provided with a priority information table containing a
7 priority or non-priority value for each of the computers, the priority information table further
8 including a predefined time; and

9 wherein I/O from a computer that is associated with a priority value is processed
10 in priority fashion such that the start of I/O processing from computers that are associated with
11 non-priority values are delayed by said predefined time.

1 10. (Previously presented): A storage system comprising:
2 a storage control apparatus including a plurality of ports connected with a
3 plurality of computers and a controller for controlling the I/O from the computers; and
4 a storage apparatus including a plurality of storage devices for storing I/O from
5 the computers received by the storage control apparatus;
6 wherein the controller is provided with a priority information table containing one
7 of a priority or non-priority value for each of the storage device units, the priority information
8 table further including a predefined time; and the priority information table causes delays by a
9 predefined time of the start of I/O processing for storage devices having non-priority values in
10 the priority information table.

11 wherein I/O with a storage device unit that is associated with a priority value is
12 processed in priority fashion such that the start of I/O processing with storage device units that
13 are associated with non-priority values are delayed by said predefined time.

11 - 12. (Canceled)